

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 1 (currently amended): A method for automatically switching a profile of a mobile phone,
5 the method comprising:
(a) measuring a current environmental noise value of ambient noise surrounding the
mobile phone;
(b) comparing the current environmental noise value to a predetermined noise value
and calculating a noise difference; and
10 (c) switching the profile of the mobile phone based on the value of the noise
difference, the profile being used to control how a user of the mobile phone is
notified of incoming calls or messages.
- 2 (original): The method of claim 1 further comprising:
15 (d) measuring a current antenna signal strength value from antenna signals received
by the mobile phone; and
(e) comparing the current antenna signal strength value to a predetermined antenna
signal strength value and calculating a signal strength difference;
wherein step (c) further comprises switching the profile of the mobile phone based
20 on the values of the noise difference and the signal strength difference.
- 3 (original): The method of claim 2 wherein steps (a) to (e) are performed when the
mobile phone is in idle mode.
- 25 4 (original): The method of claim 2 further comprising:
(f) using a timer to count for a predetermined period of time; and
(g) repeating steps (a) to (e) and restarting the timer when the timer has finished

counting for the predetermined period of time.

5 (original): The method of claim 2 further comprising:

5 switching the profile of the mobile phone to a first profile if the current antenna
signal strength value is greater than the predetermined antenna signal strength
value and the current environmental noise value is less than the predetermined
noise value;

switching the profile of the mobile phone to a second profile if the current antenna
signal strength value is greater than the predetermined antenna signal strength
10 value and the current environmental noise value is greater than the
predetermined noise value;

switching the profile of the mobile phone to a third profile if the current antenna
signal strength value is less than the predetermined antenna signal strength
value and the current environmental noise value is greater than the
15 predetermined noise value;

switching the profile of the mobile phone to a fourth profile if the current antenna
signal strength value is less than the predetermined antenna signal strength
value and the current environmental noise value is less than the predetermined
noise value; and

20 switching the profile of the mobile phone to a fifth profile if the current antenna
signal strength value is equal to the predetermined antenna signal strength value
or the current environmental noise value is equal to the predetermined noise
value.

25 6 (original): The method of claim 5 wherein settings of each of the first through fifth
profiles are customizable by the user of the mobile phone.

7 (original): The method of claim 5 wherein the first profile is a normal profile, the

second profile is an outdoor profile, the third profile is a meeting profile, the fourth profile is a silent profile, and the fifth profile is a profile previously selected by the user of the mobile phone.

- 5 8 (original): The method of claim 1 wherein the current environmental noise value of ambient noise surrounding the mobile phone is detected with a microphone of the mobile phone.
- 10 9 (original): The method of claim 1 wherein the profile of the mobile phone is automatically switched only when a user of the mobile phone activates an automatic profile switching function.
- 10 (original): A method for automatically switching a profile of a mobile phone, the method comprising:
- 15 (a) measuring a current antenna signal strength value from antenna signals received by the mobile phone;
- (b) comparing the current antenna signal strength value to a predetermined antenna signal strength value and calculating a signal strength difference; and
- (c) switching the profile of the mobile phone based on the value of the signal
- 20 strength difference.
- 11 (original): The method of claim 10 further comprising:
- (d) measuring a current environmental noise value of ambient noise surrounding the mobile phone; and
- 25 (e) comparing the current environmental noise value to a predetermined noise value and calculating a noise difference;
- wherein step (c) further comprises switching the profile of the mobile phone based on the values of the noise difference and the signal strength difference.

12 (original): The method of claim 11 wherein steps (a) to (e) are performed when the mobile phone is in idle mode.

5 13 (original): The method of claim 11 further comprising:

(f) using a timer to count for a predetermined period of time; and

(g) repeating steps (a) to (e) and restarting the timer when the timer has finished counting for the predetermined period of time.

10 14 (original): The method of claim 11 further comprising:

switching the profile of the mobile phone to a first profile if the current antenna signal strength value is greater than the predetermined antenna signal strength value and the current environmental noise value is less than the predetermined noise value;

15 switching the profile of the mobile phone to a second profile if the current antenna signal strength value is greater than the predetermined antenna signal strength value and the current environmental noise value is greater than the predetermined noise value;

switching the profile of the mobile phone to a third profile if the current antenna
20 signal strength value is less than the predetermined antenna signal strength value and the current environmental noise value is greater than the predetermined noise value;

switching the profile of the mobile phone to a fourth profile if the current antenna
signal strength value is less than the predetermined antenna signal strength
25 value and the current environmental noise value is less than the predetermined noise value; and

switching the profile of the mobile phone to a fifth profile if the current antenna signal strength value is equal to the predetermined antenna signal strength value

or the current environmental noise value is equal to the predetermined noise value.

15 (original): The method of claim 14 wherein settings of each of the first through fifth
5 profiles are customizable by the user of the mobile phone.

16 (original): The method of claim 14 wherein the first profile is a normal profile, the
second profile is an outdoor profile, the third profile is a meeting profile, the fourth
profile is a silent profile, and the fifth profile is a profile previously selected by the
10 user of the mobile phone.

17 (original): The method of claim 11 wherein the current environmental noise value of
ambient noise surrounding the mobile phone is detected with a microphone of the
mobile phone.

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18 (original): The method of claim 10 wherein the profile of the mobile phone is
automatically switched only when a user of the mobile phone activates an automatic
profile switching function.

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